				Princip	oles of Manufacturing – 1 of 2
Trade and Industrial Education Course: Principles of Manufacturing Course Code # 5781 1 Credit		School Year	Student:		Grade:
		Term:FallSpring	Teacher: Sch	nool:	
			Number of Competencies in C	ourse: 24	
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			Percent of Competencies Mast		
			refeelt of Competencies Wast	.creu.	
ΓAND	ARD 1.0: Students will analyze the comp	onents of a manufacturing system.			
arning l	Expectations	Check the appropriate the Check the Check the appropriate the Check	priate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Analyze the systems common to manufacturing organization	zations.			
1.2	Evaluate the role of customers in the manufacturing pro-	ocess.			
ΓΔΝΩ	ARD 2.0: Students will adapt processes to	meet customer needs using quality	nrincinles		
	Expectations		priate Mastery or Non-Mastery column	Mastery	Non-Mastery
	Assess the effects of quality assurance on manufacturing				
	Analyze the relationship between process management				
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	ARD 3.0: Students will access, test, recor				
arning l	Expectations	Check the appropriate the check the chec	priate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Access and process data commonly used in manufacture	ing.			
	Test data relevant to manufacturing processes.				
	Record data relevant to manufacturing processes.				
	Organize data relevant to manufacturing processes.				
3.5	Evaluate data relevant to manufacturing processes.				
TAND	ARD 4.0: Students will analyze the funda	mental organizational components of	of manufacturing organizations.		
arning l	Expectations	Check the appropriate the Check the Check the appropriate the Check the appropriate the Check the Check the Appropriate the Check	priate Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1	Analyze organizational designs and structures.				
	Analyze organizational systems and processes.				
4.3	Assess the role of personal accountability within an org	ganization.			
CAND	ARD 5.0: Students will analyze the funda	mental economic components and fi	unctions of manufacturing organizat	tions	
	Expectations		priate Mastery or Non-Mastery column	Mastery	Non-Mastery
	Analyze the basic economic principles that impact man				
	Draw conclusions and make inferences from company f				
	Contrast the costs of preventive maintenance and safety		nd workplace accidents		
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	ARD 6.0: Students will implement quality			· 1	
arning l	Expectations	Check the appropriate the Check the	priate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Analyze the contributing factors to an industrial proces	S.			

Use statistical process control concepts to evaluate and modify manufacturing processes.

6.2

STANDARD 7.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
7.1	Exhibit positive leadership skills.			
7.2	Participate in SkillsUSA-VICA as an integral part of classroom instruction.			
7.3	Assess situations and apply problem-solving and decision-making skills to particular client relations in the community, and workplace.			
7.4	Demonstrate the ability to work cooperatively with others in a professional sett	ing.		

Students will perform safety examinations and maintain safety records.

Learnin	g Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
Safety1	Pass with 100 % accuracy a written examination relating to safety issues.			
Safety2	Pass with 100% accuracy a performance examination relating to safety.			
Safety3	Maintain a portfolio record of written safety examinations and equipment instructor.	examinations for which the student has passed an operational checkout by the		

Additional Comments			